

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P237823

Luminaire Tested: **8VT2-LD5-9-DR-W-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8VT2-LD5-9-DR-W-UNV-L850-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION
8FT FIXTURE
Light Source: (224) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9185.0 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.6 / 1.58
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Semi-Direct

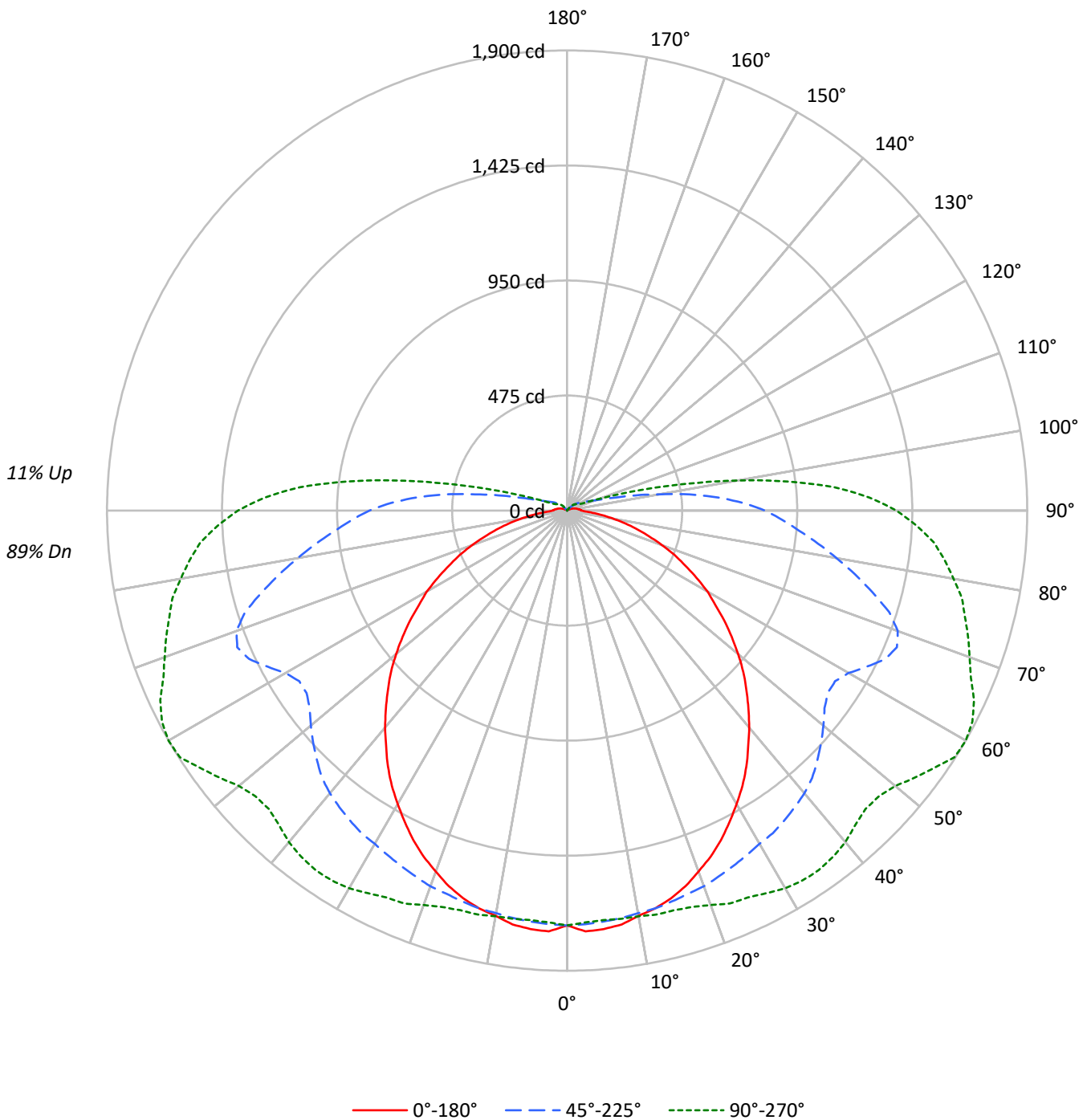
Input Watts (W): 65.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	116	116	116	116	112	112	112	112	105	105	105		98	98	98		92	92	92	89
1	101	94	88	82	97	91	85	80	84	80	75		78	75	71		73	70	67	64
2	90	79	70	63	86	76	68	61	71	64	58		66	60	55		61	56	52	49
3	81	68	58	50	77	65	56	49	61	53	47		56	50	44		52	47	42	39
4	73	59	49	41	70	57	48	40	53	45	38		49	42	37		46	40	35	32
5	67	52	42	35	64	51	41	34	47	39	32		44	37	31		41	35	30	27
6	62	47	37	30	59	45	36	29	42	34	28		39	32	27		37	30	26	23
7	57	42	32	26	54	41	32	25	38	30	24		36	29	23		33	27	22	20
8	53	38	29	23	51	37	28	22	35	27	21		33	26	21		31	24	20	18
9	49	35	26	20	47	34	25	20	32	24	19		30	23	18		28	22	18	16
10	46	32	24	18	44	31	23	18	29	22	17		28	21	17		26	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4425	4425	4425
5°	4490	4323	4277
10°	4441	4241	4213
15°	4408	4189	4194
20°	4328	4160	4249
25°	4242	4136	4348
30°	4124	4142	4506
35°	4012	4194	4633
40°	3878	4248	4710
45°	3750	4269	4774
50°	3617	4278	5087
55°	3465	4359	5647
60°	3341	4837	6224
65°	3150	5770	6608
70°	2983	6506	6973
75°	2805	6743	7564
80°	2565	6949	8338
85°	2540	7393	9372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	1.8
10°-20°	475.2	5.2
20°-30°	753.4	8.2
30°-40°	975.6	10.6
40°-50°	1104.6	12.0
50°-60°	1199.5	13.1
60°-70°	1282.5	14.0
70°-80°	1220.9	13.3
80°-90°	1002.9	10.9
90°-100°	659.8	7.2
100°-110°	229.3	2.5
110°-120°	67.8	0.7
120°-130°	33.7	0.4
130°-140°	14.3	0.2
140°-150°	2.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1391.6	15.2
0°-40°	2367.2	25.8
0°-60°	4671.4	50.9
0°-90°	8177.7	89.0
90°-120°	956.9	10.4
90°-150°	1007.3	11.0
90°-180°	1007.0	11.0
0°-180°	9185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1713	1713	1713	1713	1713	
5°	1734	1724	1704	1705	1697	164
15°	1657	1659	1671	1708	1708	467
25°	1502	1533	1620	1728	1762	691
35°	1290	1371	1563	1750	1812	806
45°	1047	1180	1460	1671	1742	808
55°	791	970	1313	1721	1851	708
65°	537	765	1450	1793	1854	535
75°	302	728	1306	1590	1700	318
85°	105	527	962	1371	1521	105
90°	59	392	816	1225	1360	34
95°	51	280	624	966	1107	40
105°	34	99	211	293	347	36
115°	17	45	88	82	70	17
125°	6	16	53	54	46	6
135°	3	0	22	32	31	2
145°	2	0	0	6	6	1
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8
2.5°	1739.2	1734.5	1729.9	1728.3	1728.3	1728.3	1728.3	1725.2	1720.6	1715.9	1709.7
5°	1734.5	1731.4	1726.8	1723.7	1723.7	1723.7	1723.7	1720.6	1715.9	1709.7	1703.6
7.5°	1723.7	1719.0	1712.8	1711.3	1709.7	1709.7	1711.3	1709.7	1705.1	1702.0	1697.4
10°	1698.9	1697.4	1692.7	1691.2	1694.3	1695.8	1695.8	1695.8	1694.3	1691.2	1688.1
12.5°	1681.9	1675.7	1672.6	1674.1	1675.7	1675.7	1678.8	1680.3	1680.3	1681.9	1681.9
15°	1657.1	1650.9	1649.3	1654.0	1655.5	1658.6	1658.6	1661.7	1663.3	1667.9	1671.0
17.5°	1626.1	1624.6	1618.4	1623.0	1630.8	1635.4	1635.4	1641.6	1646.3	1650.9	1658.6
20°	1585.9	1584.3	1581.2	1587.4	1596.7	1601.3	1609.1	1618.4	1624.6	1641.6	1650.9
22.5°	1547.1	1545.6	1540.9	1550.2	1559.5	1570.4	1579.7	1592.0	1606.0	1621.5	1635.4
25°	1502.2	1500.7	1499.1	1514.6	1525.5	1533.2	1544.0	1562.6	1579.7	1601.3	1619.9
27.5°	1451.1	1452.7	1455.8	1469.7	1486.7	1497.6	1508.4	1534.7	1553.3	1576.6	1604.4
30°	1398.5	1398.5	1407.8	1421.7	1446.5	1457.3	1471.3	1502.2	1520.8	1556.4	1589.0
32.5°	1347.4	1347.4	1352.0	1369.0	1401.6	1415.5	1432.5	1462.0	1492.9	1536.3	1579.7
35°	1290.1	1290.1	1299.3	1322.6	1355.1	1370.6	1389.2	1426.3	1465.1	1514.6	1562.6
37.5°	1228.1	1231.2	1246.7	1271.5	1310.2	1330.3	1345.8	1387.6	1435.6	1489.8	1544.0
40°	1169.3	1172.4	1190.9	1218.8	1260.6	1279.2	1299.3	1352.0	1401.6	1460.4	1523.9
42.5°	1107.3	1116.6	1133.6	1166.2	1206.4	1226.6	1254.4	1308.6	1364.4	1427.9	1497.6
45°	1046.9	1054.7	1073.2	1110.4	1155.3	1180.1	1209.5	1266.8	1328.8	1392.3	1460.4
47.5°	986.5	992.7	1015.9	1051.6	1099.6	1132.1	1163.1	1223.5	1290.1	1361.3	1421.7
50°	921.5	929.2	952.4	991.2	1045.4	1077.9	1108.9	1175.5	1243.6	1314.8	1381.4
52.5°	856.4	864.2	895.1	938.5	994.3	1023.7	1059.3	1130.5	1198.7	1271.5	1339.6
55°	791.4	800.7	833.2	871.9	933.9	969.5	1002.0	1077.9	1152.2	1229.7	1313.3
57.5°	724.8	738.7	768.1	816.2	875.0	912.2	947.8	1028.3	1107.3	1201.8	1311.7
60°	669.0	673.7	703.1	754.2	819.3	856.4	898.2	980.3	1079.4	1200.2	1341.2
62.5°	602.4	617.9	642.7	695.4	762.0	808.4	850.2	950.9	1073.2	1234.3	1395.4
65°	537.4	552.9	583.9	641.2	718.6	765.1	814.6	940.1	1098.0	1285.4	1449.6
67.5°	480.1	492.5	526.6	593.1	679.9	732.5	799.1	955.5	1144.5	1333.4	1474.3
70°	416.6	432.1	472.3	548.2	655.1	720.1	802.2	989.6	1183.2	1347.4	1452.7
72.5°	354.6	374.8	425.9	515.7	641.2	721.7	817.7	1012.8	1187.8	1310.2	1393.8
75°	302.0	319.0	382.5	487.8	638.1	727.9	827.0	1003.5	1139.8	1228.1	1305.5
77.5°	246.2	269.5	350.0	469.3	631.9	721.7	805.3	946.2	1057.8	1142.9	1217.3
80°	192.0	226.1	314.4	444.5	602.4	670.6	738.7	858.0	961.7	1048.5	1129.0
82.5°	147.1	184.3	280.3	410.4	538.9	600.9	661.3	768.1	861.1	958.6	1045.4
85°	105.3	147.1	244.7	357.7	467.7	526.6	574.6	675.2	765.1	865.7	961.7
87.5°	72.8	116.2	201.3	302.0	402.7	449.1	497.1	593.1	687.6	789.8	890.5
90°	58.9	94.5	168.8	258.6	348.5	391.8	439.8	531.2	619.5	717.0	816.2
92.5°	55.8	77.4	140.9	216.8	298.9	340.7	379.4	461.5	548.2	642.7	726.3
95°	51.1	61.9	113.1	176.6	244.7	280.3	314.4	387.2	463.1	548.2	624.1
97.5°	46.5	51.1	86.7	136.3	193.6	223.0	250.9	306.6	374.8	435.2	511.1
100°	41.8	43.4	65.0	105.3	147.1	171.9	193.6	243.1	288.1	336.1	385.6
102.5°	37.2	37.2	49.6	79.0	114.6	130.1	148.7	184.3	218.4	249.3	289.6
105°	34.1	34.1	40.3	58.9	85.2	99.1	113.1	140.9	167.3	188.9	210.6
107.5°	29.4	29.4	32.5	46.5	66.6	79.0	88.3	110.0	130.1	145.6	158.0
110°	24.8	24.8	24.8	37.2	54.2	63.5	74.3	91.4	105.3	116.2	123.9



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CATALOG NUMBER: 8VT2-LD5-9-DR-W-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	20.1	20.1	20.1	31.0	44.9	52.7	61.9	75.9	88.3	96.0	102.2
115°	17.0	17.0	15.5	23.2	37.2	44.9	52.7	65.0	75.9	83.6	88.3
117.5°	13.9	13.9	12.4	17.0	29.4	37.2	43.4	55.8	66.6	74.3	77.4
120°	10.8	10.8	9.3	10.8	23.2	29.4	37.2	48.0	57.3	65.0	69.7
122.5°	7.7	7.7	7.7	7.7	15.5	21.7	27.9	38.7	49.6	57.3	61.9
125°	6.2	6.2	6.2	4.6	10.8	15.5	21.7	32.5	40.3	48.0	52.7
127.5°	4.6	4.6	4.6	4.6	4.6	9.3	13.9	24.8	32.5	40.3	44.9
130°	4.6	4.6	3.1	3.1	3.1	4.6	9.3	17.0	24.8	31.0	37.2
132.5°	3.1	3.1	3.1	1.5	1.5	1.5	4.6	10.8	18.6	24.8	29.4
135°	3.1	3.1	1.5	1.5	0.0	0.0	0.0	6.2	12.4	17.0	21.7
137.5°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	1.5	6.2	10.8	15.5
140°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	1.5	6.2	9.3
142.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.1
145°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8
2.5°	1708.2	1709.7	1711.3	1711.3	1709.7	1709.7	1706.7	1706.7	1703.6	1702.0
5°	1702.0	1705.1	1706.7	1706.7	1705.1	1705.1	1703.6	1702.0	1698.9	1697.4
7.5°	1697.4	1702.0	1705.1	1705.1	1705.1	1705.1	1703.6	1703.6	1702.0	1700.5
10°	1691.2	1695.8	1700.5	1706.7	1708.2	1708.2	1706.7	1705.1	1702.0	1700.5
12.5°	1685.0	1691.2	1697.4	1703.6	1705.1	1706.7	1709.7	1709.7	1708.2	1708.2
15°	1678.8	1689.6	1698.9	1706.7	1708.2	1712.8	1714.4	1715.9	1712.8	1708.2
17.5°	1672.6	1686.5	1694.3	1706.7	1709.7	1712.8	1715.9	1717.5	1717.5	1715.9
20°	1666.4	1683.4	1697.4	1709.7	1712.8	1717.5	1723.7	1728.3	1733.0	1733.0
22.5°	1657.1	1678.8	1694.3	1712.8	1723.7	1728.3	1740.7	1746.9	1750.0	1756.2
25°	1644.7	1667.9	1698.9	1720.6	1728.3	1737.6	1756.2	1765.5	1765.5	1762.4
27.5°	1638.5	1674.1	1705.1	1726.8	1737.6	1748.5	1765.5	1779.4	1784.1	1781.0
30°	1630.8	1669.5	1705.1	1733.0	1745.4	1759.3	1776.3	1798.0	1801.1	1801.1
32.5°	1621.5	1663.3	1705.1	1736.1	1751.6	1764.0	1784.1	1804.2	1812.0	1810.4
35°	1612.2	1658.6	1698.9	1733.0	1750.0	1765.5	1788.7	1804.2	1810.4	1812.0
37.5°	1598.2	1647.8	1688.1	1725.2	1743.8	1757.8	1782.5	1793.4	1802.7	1802.7
40°	1578.1	1629.2	1674.1	1709.7	1723.7	1737.6	1760.9	1773.2	1781.0	1787.2
42.5°	1554.9	1604.4	1647.8	1678.8	1697.4	1708.2	1734.5	1746.9	1759.3	1760.9
45°	1519.3	1573.5	1615.3	1654.0	1671.0	1681.9	1711.3	1731.4	1742.3	1742.3
47.5°	1482.1	1533.2	1582.8	1630.8	1650.9	1669.5	1703.6	1728.3	1740.7	1745.4
50°	1440.3	1503.8	1562.6	1624.6	1650.9	1674.1	1714.4	1742.3	1757.8	1768.6
52.5°	1413.9	1496.0	1568.8	1641.6	1671.0	1702.0	1753.1	1782.5	1804.2	1810.4
55°	1410.9	1510.0	1599.8	1686.5	1720.6	1750.0	1804.2	1836.7	1853.8	1850.7
57.5°	1434.1	1554.9	1660.2	1739.2	1776.3	1804.2	1853.8	1883.2	1895.6	1895.6
60°	1485.2	1613.7	1715.9	1785.6	1815.1	1841.4	1877.0	1897.1	1903.3	1900.2
62.5°	1537.8	1655.5	1740.7	1798.0	1819.7	1832.1	1861.5	1877.0	1883.2	1886.3
65°	1579.7	1675.7	1734.5	1776.3	1793.4	1805.8	1829.0	1847.6	1850.7	1853.8
67.5°	1575.0	1641.6	1694.3	1733.0	1746.9	1759.3	1782.5	1796.5	1807.3	1804.2
70°	1531.6	1584.3	1633.9	1674.1	1689.6	1706.7	1734.5	1756.2	1760.9	1768.6
72.5°	1455.8	1510.0	1570.4	1610.6	1638.5	1655.5	1689.6	1717.5	1728.3	1736.1
75°	1376.8	1440.3	1500.7	1561.1	1590.5	1618.4	1658.6	1678.8	1705.1	1700.5
77.5°	1293.2	1375.2	1446.5	1514.6	1545.6	1575.0	1616.8	1644.7	1661.7	1669.5
80°	1221.9	1308.6	1387.6	1460.4	1489.8	1523.9	1567.3	1596.7	1615.3	1619.9
82.5°	1141.4	1235.9	1325.7	1401.6	1432.5	1462.0	1511.5	1542.5	1565.7	1571.9
85°	1062.4	1163.1	1256.0	1338.1	1370.6	1403.1	1455.8	1489.8	1511.5	1520.8
87.5°	995.8	1090.3	1184.7	1262.2	1300.9	1331.9	1384.5	1424.8	1444.9	1444.9
90°	913.7	1009.7	1104.2	1181.6	1225.0	1246.7	1299.3	1336.5	1361.3	1359.7
92.5°	827.0	918.4	997.4	1074.8	1110.4	1138.3	1194.0	1221.9	1243.6	1248.2
95°	709.3	791.4	873.5	938.5	966.4	1009.7	1051.6	1087.2	1101.1	1107.3
97.5°	571.5	653.5	710.8	789.8	808.4	837.8	881.2	910.6	924.6	919.9
100°	438.3	492.5	537.4	587.0	616.4	635.0	672.1	701.6	717.0	715.5
102.5°	311.3	354.6	387.2	425.9	429.0	446.0	469.3	498.7	504.9	512.6
105°	230.8	247.8	272.6	286.5	292.7	312.8	317.5	329.9	331.4	346.9
107.5°	171.9	181.2	190.5	198.2	202.9	204.4	216.8	215.3	218.4	221.5
110°	130.1	134.7	140.9	137.8	144.0	139.4	142.5	140.9	142.5	142.5



TEST NUMBER: P237823

CATALOG NUMBER: 8VT2-LD5-9-DR-W-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	105.3	105.3	103.8	102.2	102.2	100.7	100.7	96.0	97.6	96.0
115°	89.8	88.3	85.2	82.1	82.1	79.0	77.4	72.8	71.2	69.7
117.5°	79.0	77.4	74.3	71.2	69.7	68.1	65.0	60.4	58.9	58.9
120°	71.2	69.7	68.1	65.0	63.5	61.9	57.3	55.8	52.7	52.7
122.5°	63.5	63.5	61.9	58.9	58.9	57.3	54.2	51.1	49.6	49.6
125°	55.8	57.3	55.8	54.2	54.2	52.7	51.1	48.0	46.5	46.5
127.5°	48.0	49.6	49.6	49.6	49.6	48.0	46.5	44.9	43.4	43.4
130°	40.3	43.4	43.4	43.4	44.9	43.4	43.4	41.8	40.3	40.3
132.5°	32.5	35.6	37.2	38.7	38.7	38.7	37.2	37.2	35.6	35.6
135°	24.8	27.9	31.0	31.0	32.5	32.5	32.5	32.5	31.0	31.0
137.5°	18.6	21.7	23.2	24.8	24.8	26.3	26.3	26.3	24.8	24.8
140°	12.4	15.5	17.0	18.6	18.6	20.1	20.1	20.1	18.6	18.6
142.5°	6.2	9.3	10.8	12.4	12.4	12.4	13.9	13.9	13.9	12.4
145°	1.5	3.1	4.6	6.2	6.2	6.2	7.7	7.7	7.7	6.2
147.5°	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)